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Atty. Dkt. No. 039363-1202

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ibrahim et al.
Title: PYK2 CRYSTAL STRUCTURE
AND USES
Appl. No.: 10/789,818
Filing Date: 02/27/2004
Examiner: Nashed
Art Unit: 1646
Confirmation 1656
Number:

<p align="center">CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p><u>Anita Peter</u> (Printed Name)</p> <p><u><i>[Signature]</i></u> (Signature)</p> <p><u>August 15, 2006</u> (Date of Deposit)</p>

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

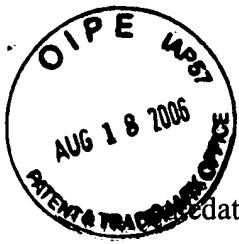
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Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to



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update or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT


All of the documents are in English.

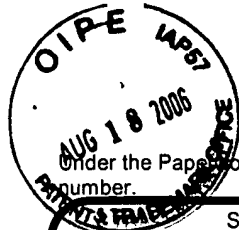
Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 50-0872.

Respectfully submitted,

Date 8/18/06
FOLEY & LARDNER LLP
Customer Number: 30542
Telephone: (858) 847-6767
Facsimile: (858) 792-6773

By 
Richard J. Warburg
Attorney for Applicant
Registration No. 32,327



MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/664,421
Filing Date	09/16/2003
First Named Inventor	Ryan Bremer
Group Art Unit	1656
Examiner Name	Nashed
Attorney Docket Number	039363-0703

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	20010008765		Shinoki et al.	07/19/2001	
	A2	20010012537		Anderson et al.	08/09/2001	
	A3	20010014448		Chappa et al.	08/16/2001	
	A4	20010014449		Nerenberg et al.	08/16/2001	
	A5	20010016322		Caren et al.	08/23/2001	
	A6	20010018642		Balaban et al.	08/30/2001	
	A7	20010019827		Dawson et al.	09/06/2001	
	A8	6100254		Budde et al.	08/08/2000	
	A9	6197495		Qui et al.	03/06/2001	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Application Document		Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A10	WO	99/26966		The Regents of the University of California	06-03-1999		
	A11	WO	01/58951		Stichting Voor de Technische Wetenschappen	08-16-2001		
	A12	WO	02/24722		Prochon Biotech Ltd.	03-28-2002		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶

Examiner Signature

Date Considered

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				Application Number	10/664,421
				Filing Date	09/16/2003
				First Named Inventor	Ryan Bremer
				Group Art Unit	1656
Examiner Name	Nashed				
Sheet	2	of	4	Attorney Docket Number	039363-0703

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	A13	BOEHM, <i>et al.</i> , "Novel Inhibitors of DNA Gyrase: 3D Structure Based Biased Needle Screening, Hit Validation by Biophysical Methods, and 3D Guided Optimization. A Promising Alternative to Random Screening," <i>J. Med. Chem.</i> 43:2664-2674 (2000)		
	A14	BOHACEK, <i>et al.</i> , "Multiple Highly Diverse Structures Complementary to Enzyme Binding Sites: Results of Extensive Application of a <i>de Novo</i> Design Method Incorporating Combinatorial Growth," <i>J. Am. Chem. Soc.</i> 116:5560-5571 (1994)		
	A15	CHONG, <i>et al.</i> , "Molecular dynamics and free-energy calculations applied to affinity maturation in antibody 48G7," <i>PNAS</i> 96:14330-14335 (1999)		
	A16	CORNELL, <i>et al.</i> , "A Second Generation Force Field for the Simulation of Proteins, Nucleic Acids, and Organic Molecules," <i>J. Am. Chem. Soc.</i> 117:5179-5197 (1995)		
	A17	DONINI and KOLLMAN, "Calculation and Prediction of Binding Free Energies for the Matrix Metalloproteinases," <i>J. Med. Chem.</i> 43:4180-4188 (2000)		
	A18	DOWNS and WILLET, "Similarity Searching and Clustering of Chemical-Structure Databases Using Molecular Property Data," <i>J. Chem. Inf. Comput. Sci.</i> 34:1094-1102 (1994)		
	A19	ELCOCK, Realistic modeling of the denatured states of proteins allows accurate calculations of the pH dependence of protein stability. <i>J. Mol. Biol.</i> , 294:1051-1062, (1999).		
	A20	FELDER, "The Challenge of Preparing and Testing Combinatorial Compound Libraries in the Fast Lane, at the Front End of Drug Development," <i>Chimia</i> 48:531-541 (1994)		
	A21	GILLILAND and LADNER, Crystallization of biological macromolecules for X-ray diffraction studies. <i>Current Opinion in Structural Biology</i> , 6:595-603, 1996.		
	A22	JARVIS and PATRICK, "Clustering Using a Similarity Measure Based on Shared Near Neighbors," <i>IEEE Transactions on Computers</i> 11:1025-1034 (1973)		
	A23	KE and DOUDNA, Crystallization of RNA and RNA-protein complexes. <i>Methods</i> , 34:408-414, (2004).		
	A24	MASSOVA and KOLLMAN, "Computational Alanine Scanning to Probe Protein - Protein Interactions: A Novel Approach to Evaluate Binding Free Energies," <i>Journ. of Amer. Chem. Soc.</i> 121(36):8133-8143 (1999)		

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				Group Art Unit	1656
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Sheet	3	of	4	Attorney Docket Number	039363-0703

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
	A25	MCGOVERN, <i>et al.</i> , "A Common Mechanism Underlying Promiscuous Inhibitors from Virtual and High-Throughput Screening," <i>J. Med. Chem.</i> 45:1712-1722 (2002)		
	A26	OBRECHT, <i>et al.</i> , "Solid-Supported Combinatorial and Parallel Synthesis of Small-Molecular-Weight Compound Libraries," <i>Linker Mol. & Cleav. Strat.</i> P. 85.		
	A27	OWEN, <i>et al.</i> , "Two Structures of the catalytic domain of phosphorylase kinase: an active protein kinase complexed with substrate analogue and product," <i>Curr. Biol. Ltd.</i> 3:467-482 (1995)		
	A28	PEARLMAN and CHARIFSON, "Are Free Energy Calculations Useful in Practice? A Comparison with Rapid Scoring Functions for the p38 MAP Kinase Protein System," <i>J. Med. Chem.</i> 44:3417-3423 (2001)		
	A29	RIPKA, <i>et al.</i> , "Aspartic Protease Inhibitors Designed from Computer-Generated Templates Bind as Predicted," <i>Org. Lett.</i> 15:2309-2312 (2001)		
	A30	WIENCEK, New strategies for protein crystallization growth. <i>Ann.Rev.Biomed.Eng.</i> , 1:505-534, (1999).		
	A31	WILLETT, "Chemical Similarity Searching," <i>J. Chem. Inf. Comput. Sci.</i> 38:983-996 (1998)		

Examiner Signature		Date Considered	
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	A32	YANG et al., Peptide analogs from E-cadherin with different calcium-binding affinities. J. Peptide Research, 55:203-215, 2000.	

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